3-ethoxy-2-butanone

Inchi: InChI=1S/C6H12O2/c1-4-8-6(3)5(2)7/h6H,4H2,1-3H3
InchiKey: UKIKCLGEESVZAE-UHFFFAOYSA-N
Formula: C6H12O2
SMILES: CCOC(C)C(C)=O
Mol. weight [g/mol]: 116.16

Physical Properties

Property code	Value	Unit	Source
gf	-236.72	kJ/mol	Joback Method
hf	-417.25	kJ/mol	Joback Method
hfus	10.56	kJ/mol	Joback Method
hvap	37.72	kJ/mol	Joback Method
log10ws	-0.81		Crippen Method
logp	1.000		Crippen Method
mcvol	102.840	ml/mol	McGowan Method
pc	3302.95	kPa	Joback Method
rinpol	663.00		NIST Webbook
tb	412.53	K	Joback Method
tc	594.22	K	Joback Method
tf	214.54	K	Joback Method
vc	0.390	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.90	J/mol×K	412.53	Joback Method
cpg	247.38	J/mol×K	563.94	Joback Method
cpg	238.55	J/mol×K	533.66	Joback Method
cpg	229.39	J/mol×K	503.38	Joback Method
cpg	219.89	J/mol×K	473.09	Joback Method
cpg	210.06	J/mol×K	442.81	Joback Method
cpg	255.87	J/mol×K	594.22	Joback Method
dvisc	0.0002624	Pa×s	412.53	Joback Method
dvisc	0.0003438	Pa×s	379.53	Joback Method

dvisc	0.0004742	Pa×s	346.53	Joback Method
dvisc	0.0006998	Pa×s	313.53	Joback Method
dvisc	0.0011317	Pa×s	280.54	Joback Method
dvisc	0.0020807	Pa×s	247.54	Joback Method
dvisc	0.0046134	Pa×s	214.54	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R332680&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume